



ANALYTICAL REPORT

Lab Number:	L1715138
Client:	EQ Northeast, Inc. 185 Industrial Road P.O. Box 617 Wrentham, MA 02093
ATTN:	Michael Sciola
Phone:	(508) 384-6151
Project Name:	TRAIN WASH SAMPLE BLANKS
Project Number:	Not Specified
Report Date:	05/17/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: TRAIN WASH SAMPLE BLANKS
Project Number: Not Specified

Lab Number: L1715138
Report Date: 05/17/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1715138-01	TRAIN WASH WATER BLANKS	WATER	CRMF 70R THIRD AVENUE, SOMERVILLE, MA	05/10/17 11:45	05/10/17

Project Name: TRAIN WASH SAMPLE BLANKS
Project Number: Not Specified

Lab Number: L1715138
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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: TRAIN WASH SAMPLE BLANKS
Project Number: Not Specified

Lab Number: L1715138
Report Date: 05/17/17

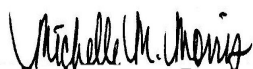
Case Narrative (continued)

Sample Receipt

The analyses performed were specified by the client.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 05/17/17

METALS

Project Name: TRAIN WASH SAMPLE BLANKS**Lab Number:** L1715138**Project Number:** Not Specified**Report Date:** 05/17/17**SAMPLE RESULTS**

Lab ID: L1715138-01

Date Collected: 05/10/17 11:45

Client ID: TRAIN WASH WATER BLANKS

Date Received: 05/10/17

Sample Location: CRMF 70R THIRD AVENUE, SOMERVIL

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Low-Level Mercury - Mansfield Lab											
Mercury, Total	0.0173		ug/l	0.0005	--	1	05/17/17 08:10	05/17/17 11:22	EPA 1631E	82,1631E	LC



Project Name: TRAIN WASH SAMPLE BLANKS**Lab Number:** L1715138**Project Number:** Not Specified**Report Date:** 05/17/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Low-Level Mercury - Mansfield Lab for sample(s): 01 Batch: WG1004299-1										
Mercury, Total	ND		ug/l	0.0005	--	1	05/17/17 08:10	05/17/17 10:37	82,1631E	LC

Prep Information

Digestion Method: EPA 1631E

Lab Control Sample Analysis**Batch Quality Control****Project Name:** TRAIN WASH SAMPLE BLANKS**Lab Number:** L1715138**Project Number:** Not Specified**Report Date:** 05/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Low-Level Mercury - Mansfield Lab Associated sample(s): 01 Batch: WG1004299-2 SRM Lot Number: HG-LOW								
Mercury, Total	100		-		77-123	-		24

Matrix Spike Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE BLANKS

Lab Number: L1715138

Project Number: Not Specified

Report Date: 05/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Low-Level Mercury - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1004299-3 WG1004299-4 QC Sample: L1715138-01 Client ID: TRAIN WASH WATER BLANKS												
Mercury, Total	0.0173	0.005	0.0225	104		0.0226	106		71-125	0		24

INORGANICS & MISCELLANEOUS

Project Name: TRAIN WASH SAMPLE BLANKS**Lab Number:** L1715138**Project Number:** Not Specified**Report Date:** 05/17/17**SAMPLE RESULTS****Lab ID:** L1715138-01**Date Collected:** 05/10/17 11:45**Client ID:** TRAIN WASH WATER BLANKS**Date Received:** 05/10/17**Sample Location:** CRMF 70R THIRD AVENUE, SOMERVI**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	05/11/17 00:45	05/11/17 01:12	1,7196A	KA



Project Name: TRAIN WASH SAMPLE BLANKS**Lab Number:** L1715138**Project Number:** Not Specified**Report Date:** 05/17/17**Method Blank Analysis**
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1002272-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	05/11/17 00:45	05/11/17 01:09	1,7196A	KA

Lab Control Sample Analysis**Batch Quality Control****Project Name:** TRAIN WASH SAMPLE BLANKS**Project Number:** Not Specified**Lab Number:** L1715138**Report Date:** 05/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1002272-2								
Chromium, Hexavalent	92		-		85-115	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: TRAIN WASH SAMPLE BLANKS

Lab Number: L1715138

Project Number: Not Specified

Report Date: 05/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002272-4 QC Sample: L1715138-01 Client ID: TRAIN WASH WATER BLANKS												
Chromium, Hexavalent	ND	0.1	0.103	103		-	-		85-115	-		20

Lab Duplicate Analysis
Batch Quality Control**Project Name:** TRAIN WASH SAMPLE BLANKS**Project Number:** Not Specified**Lab Number:** L1715138**Report Date:** 05/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002272-3 QC Sample: L1715138-01 Client ID: TRAIN WASH WATER BLANKS						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Project Name: TRAIN WASH SAMPLE BLANKS**Lab Number:** L1715138**Project Number:** Not Specified**Report Date:** 05/17/17**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1715138-01A	Plastic 250ml unpreserved	A	7	2.1	Y	Absent	HEXCR-7196(1)
L1715138-01B	Teflon 250ml HCl preserved	A	<2	2.1	Y	Absent	A2-HG-1631(28)

*Values in parentheses indicate holding time in days

Project Name: TRAIN WASH SAMPLE BLANKS**Lab Number:** L1715138**Project Number:** Not Specified**Report Date:** 05/17/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: Data Usability Report



Project Name: TRAIN WASH SAMPLE BLANKS**Lab Number:** L1715138**Project Number:** Not Specified**Report Date:** 05/17/17**Data Qualifiers**

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: TRAIN WASH SAMPLE BLANKS**Lab Number:** L1715138**Project Number:** Not Specified**Report Date:** 05/17/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 82 Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Atomic Fluorescence Spectrometry. USEPA Office of Water, EPA Method 1631 Revision E, EPA-821-R-02-019, August 2002.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

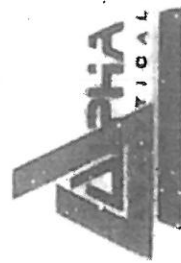
Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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April 28, 2017

Marian Rambelle
CDW Consultants, Inc.
40 Speen Street
Suite 301
Framingham, MA 01701

Subject: Train-Wash Water
Alpha Quote Number: 2910

Dear Marian,

Alpha Analytical is pleased to provide the following analytical cost proposal. A table with the project pricing is attached. Thank you for this opportunity. If you have any questions, or concerns, you may reach me directly at 508-439-5157.

Sincerely yours,

A handwritten signature in dark ink, appearing to read 'Dave Sanford'.

Dave Sanford
Project Manager
Attachment



Date April 28, 2017

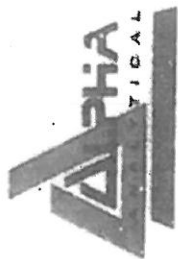
Subject Train Wash Water

Quote # 2910

Water				
WATER				
PARAMETER	METHOD	# OF SAMPLES	UNIT RATE	EXTENDED TOTAL
VOA EPA 624, Acrolein and Benzene	624	3	\$137.00	\$411.00
ABN EPA 625, Phenol and Phthalates	625	3	\$236.00	\$708.00
Total Mercury (AF)	1631E	3	\$110.00	\$330.00
Total Cadmium - EPA 200.8	200.8	3	\$12.00	\$36.00
Hexavalent Chromium - EPA 7196	7196A	3	\$20.00	\$60.00
Oil & Grease-Hexane Method - EPA 1664A	1664A	3	\$110.00	\$330.00
1664				
Total Lead - EPA 200.8	200.8	3	\$12.00	\$36.00
Total Suspended Solids - SM 2540D (low level)	2540D	3	\$19.00	\$57.00
Total Zinc - EPA 200.8	200.8	3	\$12.00	\$36.00
			TOTAL	\$2004.00
			PROJECT TOTAL	\$2004.00

1. Laboratory method blanks, laboratory control spikes (LCS/LCSD) are analyzed at no additional cost. If trip blanks, or other field QC such as matrix spikes (MS/MSD), duplicates, or field blanks/equipment blanks are required, they are billed at the unit prices.
2. Samples are disposed 21 days after invoicing unless prior arrangements have been made. Samples that require storage beyond 21 days will be billed a storage fee of \$5.00/sample/month for extended and monitored frozen storage.
3. Bottles, preservatives, and coolers will be provided at no additional cost.
4. Laboratory reporting limits (RLs) are based on clean, 100% dry reference material. Lab RLs as compared to State, Federal, QAPP, or other project criteria do not represent a guarantee. Actual field sample results will differ depending on site-specific field conditions and various factors such as high moisture, high levels of sulfur and/or organic matter, and high concentrations of non-target and/or target analytes.
5. Samples cannot be logged in and turnaround time clock will not start until any ambiguities are resolved. Surcharge fees will be applied when response is not received within 24 hours and original requested turnaround time is still required.
6. Any samples that are received on hold and are not analyzed will incur a \$50 fee per batch of samples. (Batch defined as up to 20 samples.)

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Date April 28, 2017

Subject Train Wash Water

Quote # 2910

7. Turnaround time is an estimate and may vary depending on laboratory capacity at the time of sample receipt. Alpha Analytical reserves the right to revise the turnaround time accordingly, should the scope and/or schedule of the project change.

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Terms & Conditions

In the absence of a written agreement to the contrary, this order constitutes an acceptance by the Client of Alpha Analytical, Inc. (ALPHA)'s offer to do business under these Terms and Conditions, and agrees to be bound by these conditions. Any terms and conditions from Client's that do not conform to the terms and conditions contained herein shall be deemed invalid and unenforceable, unless accepted in writing by ALPHA. Any provisions of Terms and Conditions held in violation of any law or ordinance shall be stricken, and all remaining provisions shall continue valid and binding. This order shall not be valid unless it contains sufficient specifications to enable ALPHA to carry out the Client's requirements. Samples must be accompanied by: a) adequate instruction as to the quantity and type of analysis requested, and b) turnaround times, calculated from the point in time when ALPHA has determined that it can proceed with the defined work to be done (Sample Delivery Acceptance). The Client is required to respond to questions about the order within one business day of request by ALPHA. If the Client does not respond within one business day, the turnaround time for any deliverables will be extended by the same number of business days ALPHA was delayed in receiving a response from the Client. ALPHA reserves the right, to refuse or revoke Sample Delivery Acceptance for any sample which in the sole judgment of ALPHA: a) is unsuitable volume; b) may pose a risk or become unsuitable for handling, transport or processing for any health, safety, environmental or any other reason; c) holding times cannot be met due to passage of more than 48 hours from the time of sampling or 1/2 the holding time for the requested test, whichever is less.

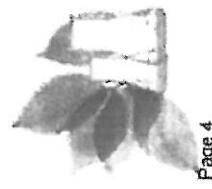
Client agrees to pay for all applicable charges to process this order. Prices do not include sales tax. Applicable sales tax will be added to invoices where required by law. Payment in advance is required for all Clients except those whose credit has been established with ALPHA. For Clients with approved credit, payment terms are Net 30 days from the date of the invoice by ALPHA unless other payment terms are agreed to in writing. All overdue payments are subject to an interest and service charge of one and one half percent (1.5%) (Or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of third parties will not be accepted without a prepayment from the third party or a signed credit agreement from the third party that acknowledges and accepts payment responsibility. ALPHA may suspend work and withhold delivery of data under this order at any time in the event that the Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. Data or information provided to ALPHA or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by ALPHA of payment for the entire Order.

ALPHA will use analytical methodologies which are in substantial conformity with published test methods. ALPHA has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures where the nature or composition of the samples requires it. ALPHA reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of ALPHA. Deviations, if any, will be made on a basis consistent with the recognized standards of the industry and/or ALPHA's Laboratory Quality Manuals. Client may request that ALPHA perform according to a mutually agreed upon Quality Assurance Project Plan (QAPP). In the event that samples arrive without a prior agreement on a QAPP, ALPHA will proceed with analyses under its standard Quality Manuals then in effect, and ALPHA will not be responsible for any re-sampling or other changes if work must be repeated to comply with the subsequently finalized QAPP.

ALPHA's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100.00. All claims, including those for negligence, shall be deemed waived unless suit therein is filed within one year after ALPHA's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall ALPHA be responsible for loss of use, loss of profits or for any special, indirect, incidental or consequential damages occasioned by the services performed by application or use of the reports prepared.

In no event shall ALPHA have any responsibility or liability to the Client for any failure or delay in performance by ALPHA which results, directly or indirectly in whole or in part, from any cause or circumstance beyond the reasonable control of ALPHA.

ALPHA shall dispose of the Client's samples 21 calendar days after the analytical report is issued, unless instructed to store them for an alternate period of time or return such samples to the Client. The return of samples will be at the Client's own expense.



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